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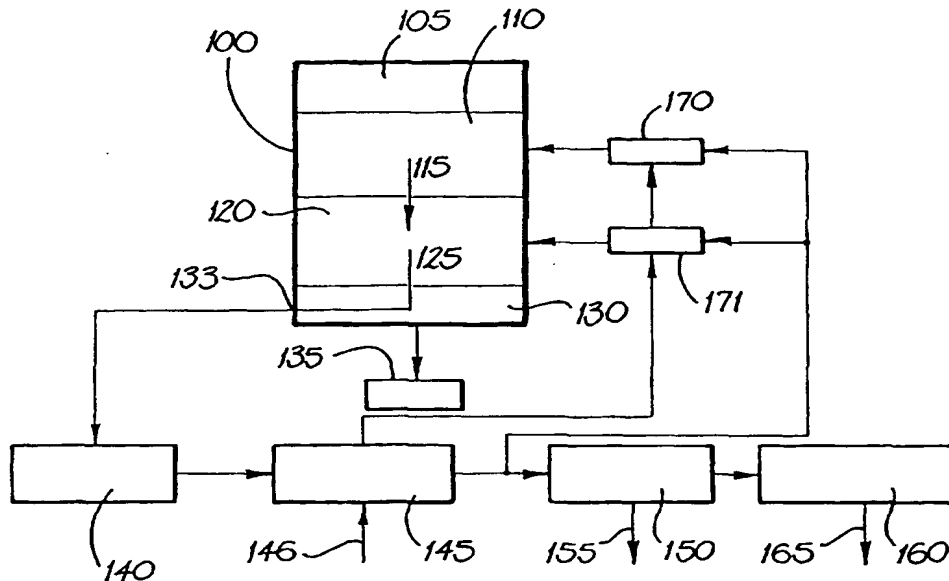
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- (75) Inventor/Applicant (*for US only*): RANDALL, Denis, A. [AU/AU]; 6 Ashland Close, Rutherford, NSW 2320 (AU). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS AND SYSTEM FOR RECOVERING ENERGY FROM CARBON-CONTAINING MATERIALS



(57) Abstract: The invention provides processes and systems for generating heat from a carbon-containing material or converting a carbon-containing material to a combustible gaseous fuel, comprising (a) pyrolysing the material in a reactor to produce a carbon-enriched solid and a first gaseous product, (b) burning at least part of the first gaseous product and/or a second gaseous product obtained by reacting the carbon-enriched solid with water vapour to generate heat, and (c) returning combustion products from the burning step to the reactor and/or removing part of the first gaseous product and/or the second gaseous product as a combustible fuel.